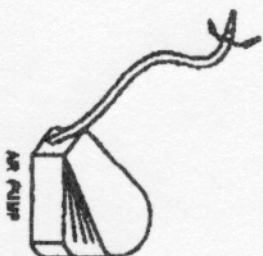
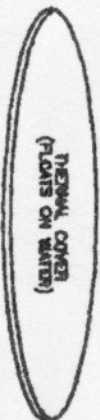
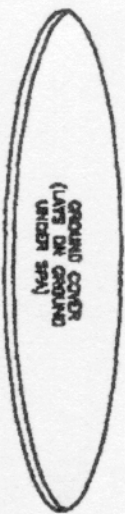
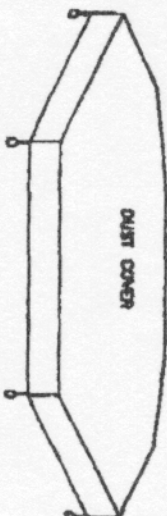
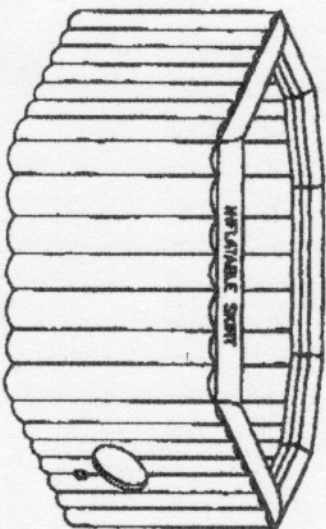
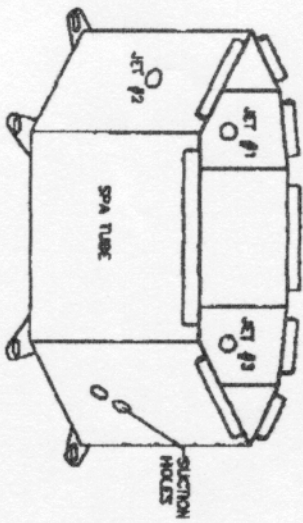
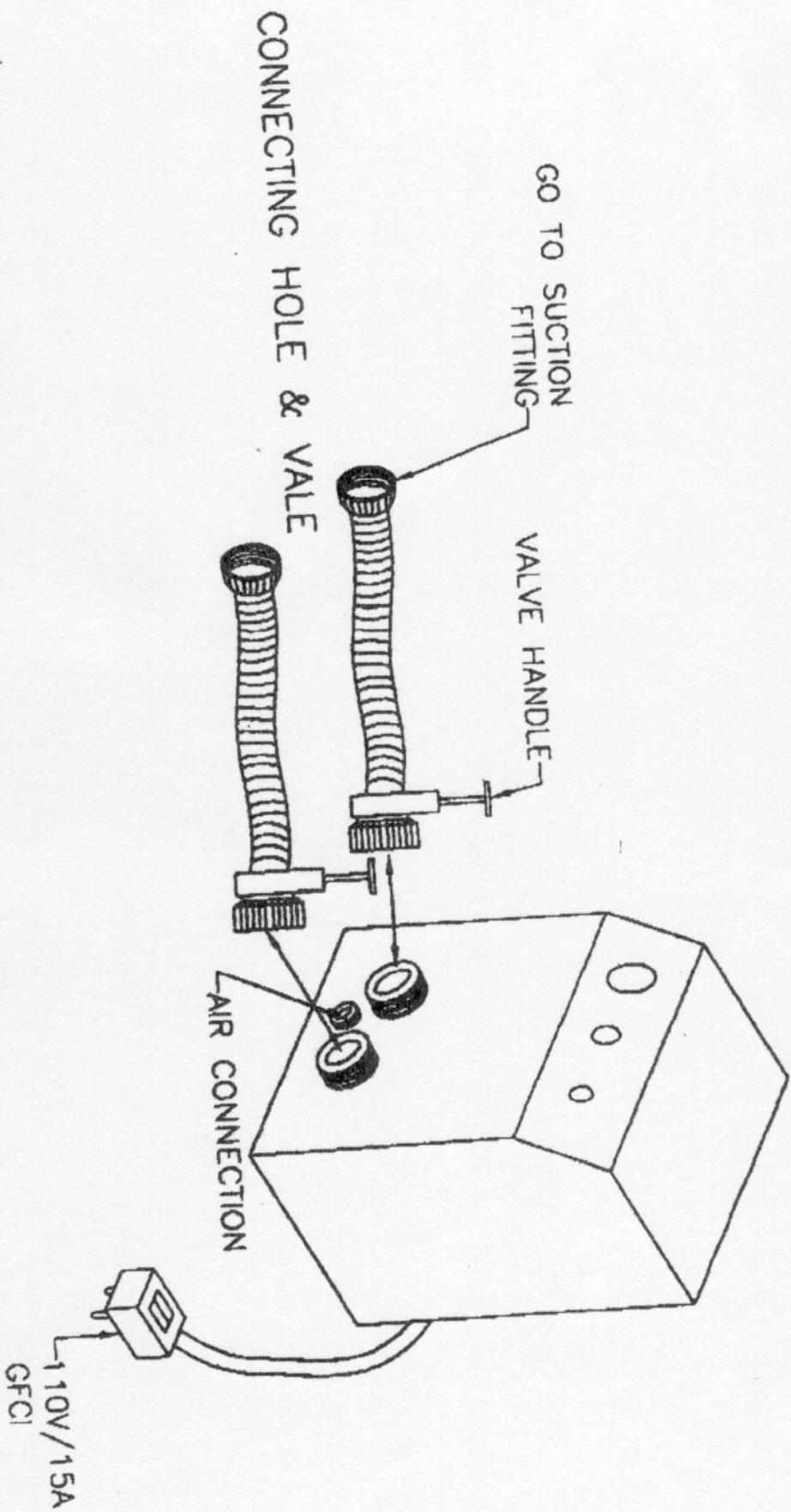


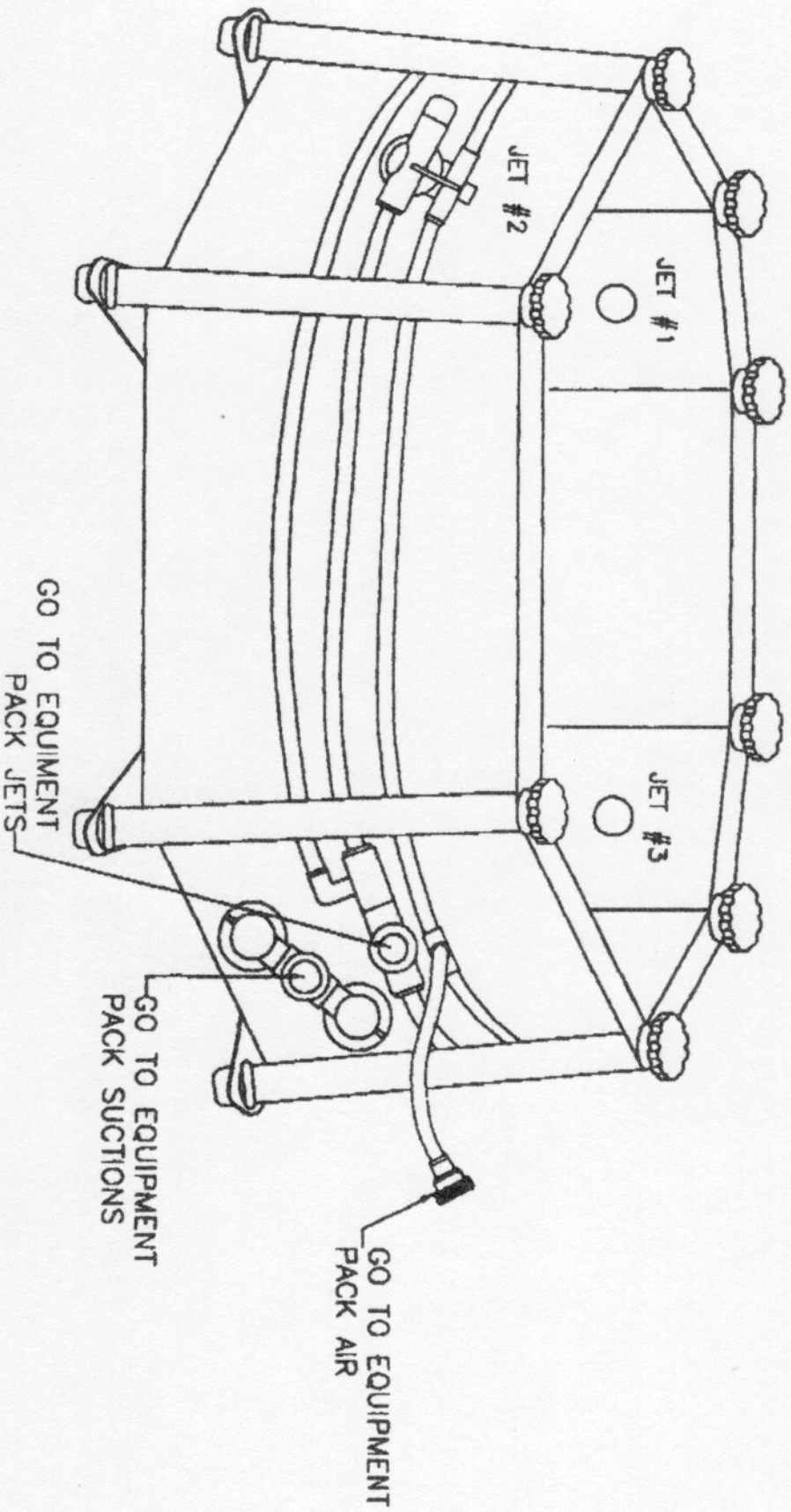
Advantage Spa

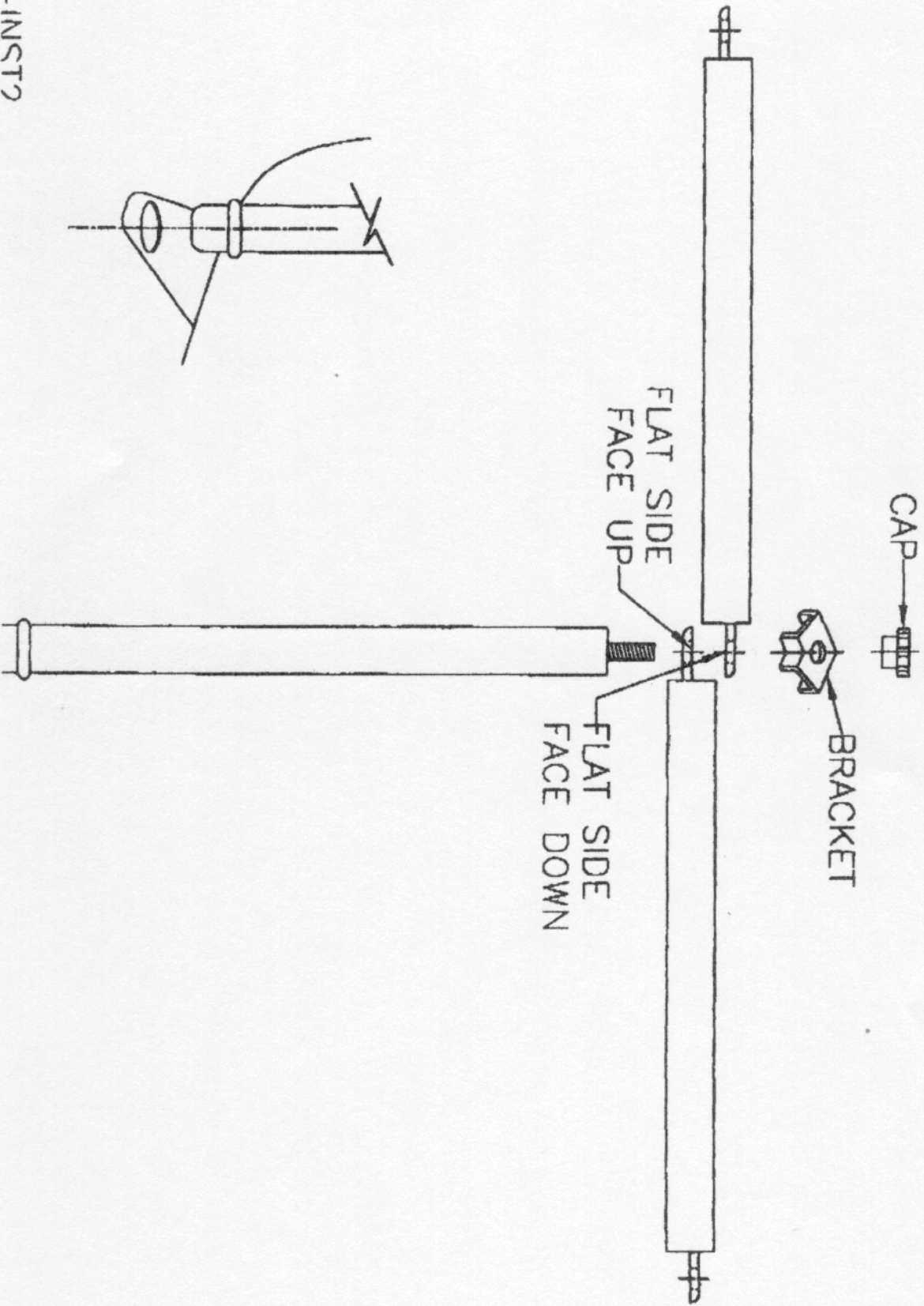
Owners Manual

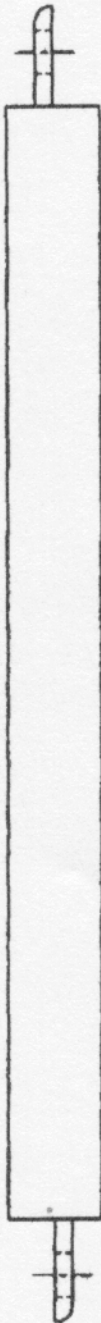


EQUIPT PACK

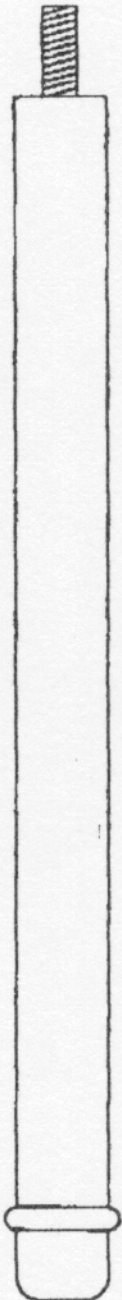








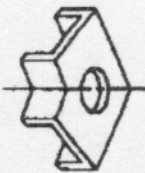
HORIZONTAL SUPPORT PIPE - 8EA



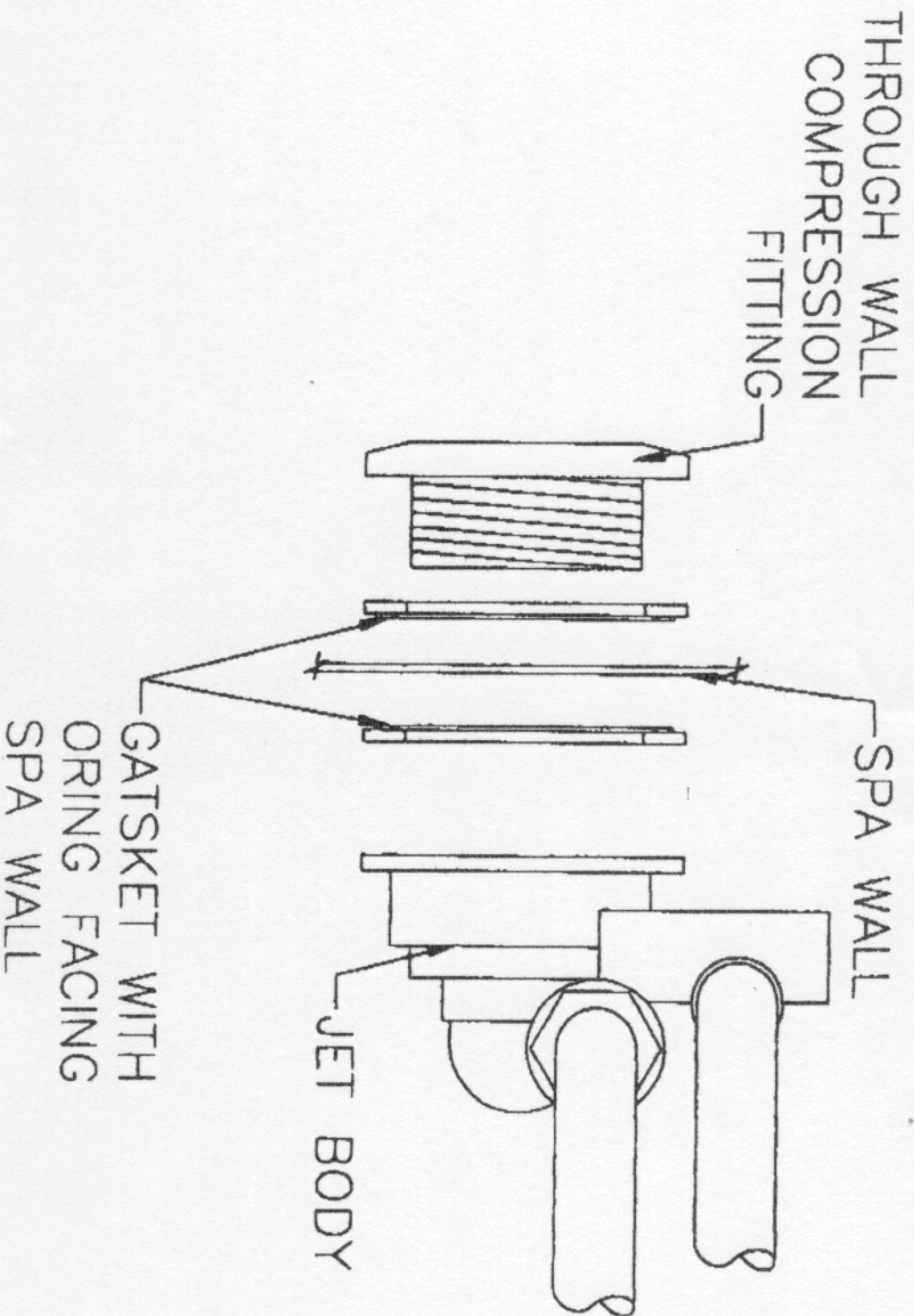
VERTICAL STAND PIPE - 8EA

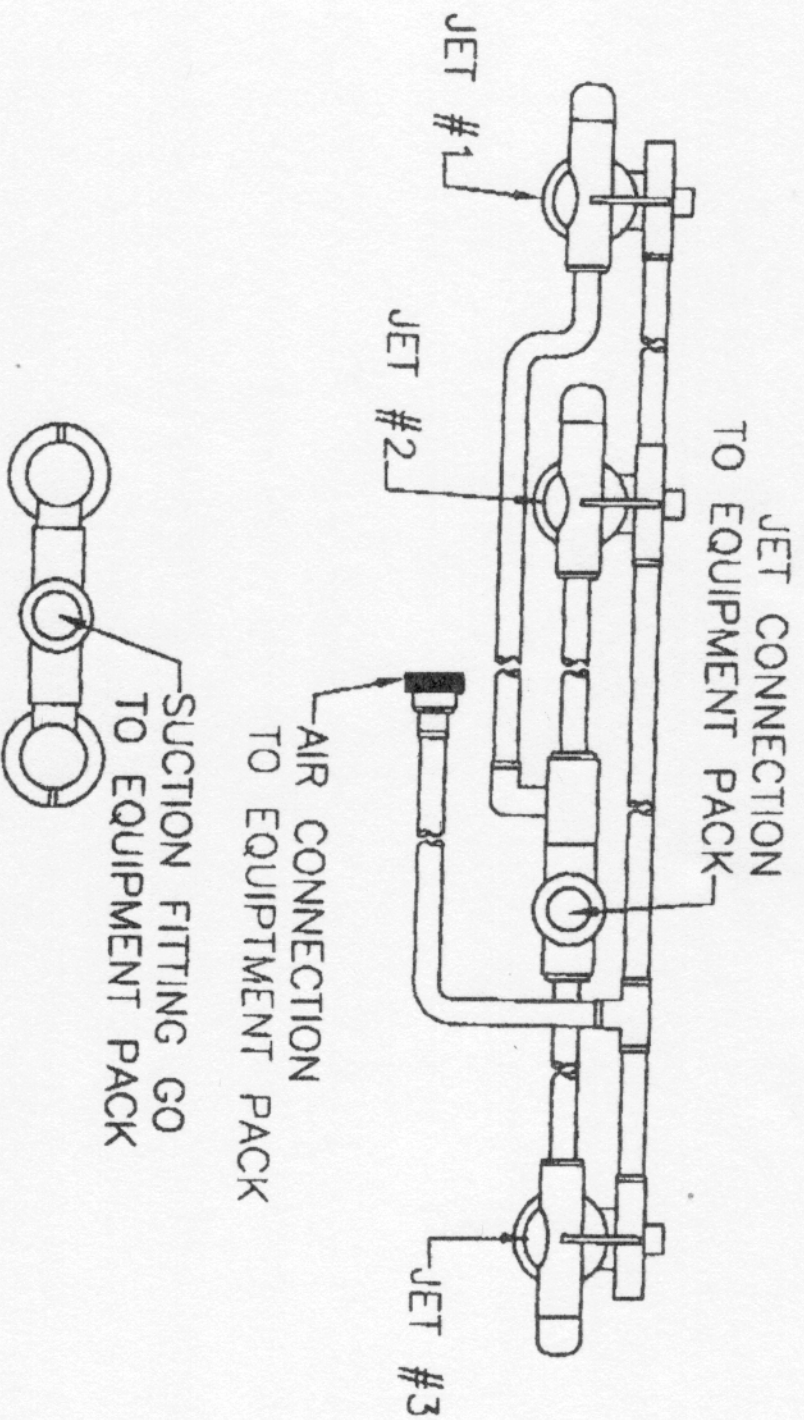


CAP - EA



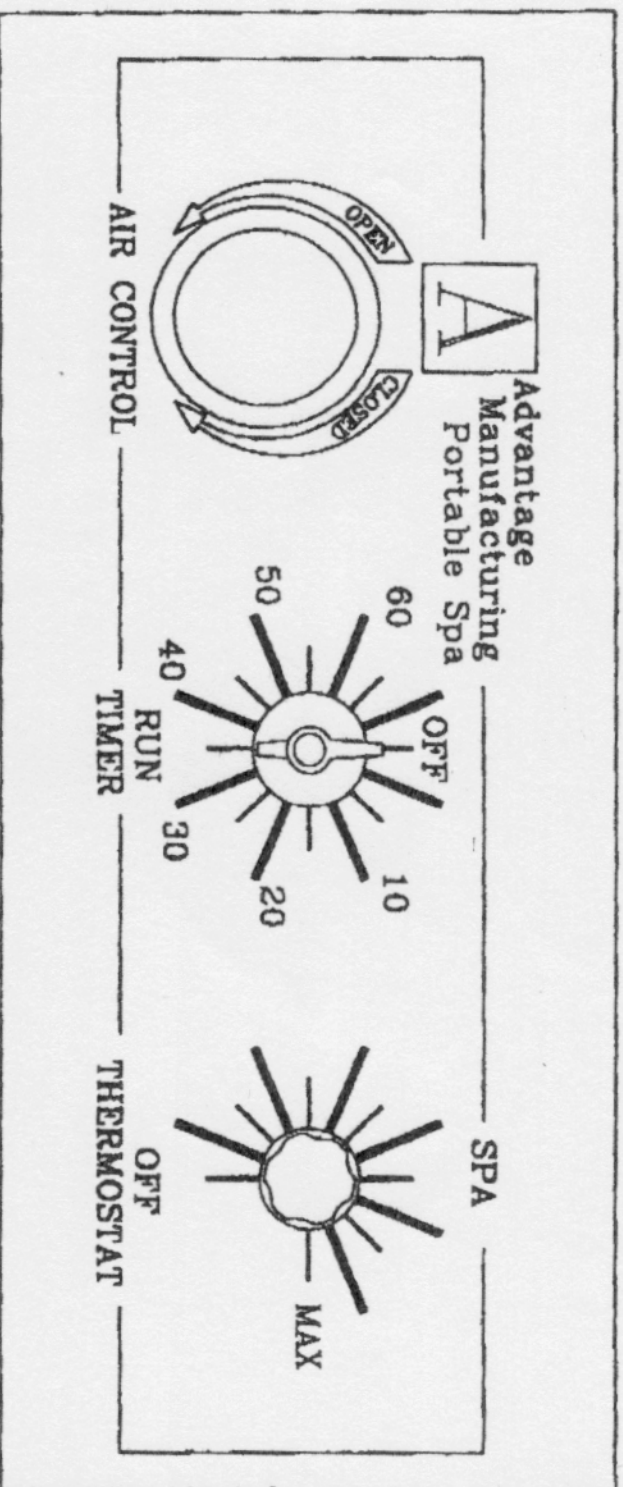
BRACKET - 8EA





HARNESSES

PLUMBING HARNESSES JETS



CONTROL PANEL

Advantage Spa

Owners Manual

The following instructions are required to be printed. They contain important safety information and we strongly encourage you to read and apply them.

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

Read and Follow All Instructions.

DANGER – To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

WARNING – **Risk of Child Drowning.** Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use a spa or hot tub unless they are supervised at all times.

Connect to a grounded, grounding type receptacle only.

Do not bury cord.

WARNING – To reduce the risk of electrical shock, replace damaged cord immediately.

DANGER – To reduce the risk of injury to persons, do not remove suction fittings.

This appliance is provided with a ground-fault circuit interrupter (located near the end of the power cord). Before each use, with the plug connected to the power supply and with the unit operating, push the test button. The unit should stop operating and the reset button should pop out slightly. Push the reset button. The unit should now operate normally. If the interrupter fails to operate in this manner, there is a ground current flowing, indicating the possibility of an electrical shock. Disconnect the plug from the receptacles until the fault has been identified and corrected.

Install spa so that proper drainage is provided for the Power Pak.

DANGER – **Risk of Electrical Shock.** Install at least 5 feet (1.5m) from all metal surfaces.

DANGER – **Risk of Electrical Shock.** Do not permit any electrical appliance, such as light, telephone, radio, or television, within 5 feet (1.5m) of a spa or hot tub.

To reduce the risk of injury:

- The water in a spa or hot tub should never exceed 40c (104f). Water temperatures between 38c (100f) and 40c (104f) are considered safe for a healthy adult. Lower water temperatures are recommended for extended use (exceeding 10 – 15 minutes) and for young children.

- Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit spa or hot water temperatures to 38c (100f).
- Before entering a spa or hot tub, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices may vary as much as +/-3c (5f).
- The use of alcohol, drugs or medication before or during spa or hot tub use may lead to unconsciousness with the possibility of drowning.
- Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a spa or hot tub.
- Persons using medication should consult a physician before using a spa or hot tub since some medication may affect heart rate, blood pressure and circulation.
- Water chemistry should be properly maintained as described in this manual to prevent skin irritation.

SAVE THESE INSTRUCTIONS

Introduction**Safety Information****1: Set-up****Warnings****Installation****2: O-rings****Operation****Temperature Settings****3: Control Knob****Air Control Valves****4: Air Control Valves****Maintenance****Vinyl Care****Filter Cleaning****Changing the Water****5: Super Pump****Winterizing/Vacationing****Transporting****Storing****Filling & Draining using the Super Pump****GFCI****6: GFCI****Water Treatment****Service****Trouble Shooting****Specifications****Accessories****Warranty**

WARNINGS

In addition to the Safety Instructions found in the beginnings of this manual these warnings have been assembled to help you enjoy the use of your Advantage Spa, we at Advantage Spa have spent 3 years developing the Advantage Spa to be trouble free. We have found, however, it is possible to damage it and the structure supporting it. If damage does occur to your Advantage Spa it has been designed to be easily repaired. The vinyl can be easily patched or replaced. The plumbing can also be easily repaired.

This section has been compiled by the experience we have had over the last several years with our product. Reading and understanding these warnings will allow you to reduce the risk of causing inadvertent damage to your Advantage Spa, your surroundings or yourselves. Please take the time to carefully read these warnings.

NEVER operate your Advantage Spa with insufficient water. The water level must be above all jets. Low water can cause the Power Pak to overheat and void the warranty.

Unplug your Power Pak before draining. Without water it takes the Power Pak less than 90 seconds to overheat and cause serious damage to the seals and bearings. Running the Power Pak without water will void the warranty.

Maintain proper water pH (7.4 – 7.6, 7.6 is ideal). The liner can be damaged by an improper pH balance.

Maintain proper water sanitation with chemicals and routine cleaning. Warm water is an ideal place for bacteria to thrive. It is the sole responsibility of the tub owner to maintain proper water chemistry and sanitation. Read the sections on filter cleaning and water chemistry. Ask your dealer for more details.

NEVER use an extension cord to connect the Power Pak to its power source. The cord may not be properly grounded and the connection is a shock hazard. An extension cord will cause a voltage drop which may cause damage to the pump motor.

Do not operate without the GFCI (box found at the end of the power cord) in place and fully functional. This is a very important safety device which shuts off the power in the event of an electrical short to ground.

Install the Advantage Spa only on floors or areas that can withstand repeated exposure to water (tile, brick etc.). Splashing, dripping, filling and draining are routine operations which will spill water. Equipment failure may also cause substantial water spillage. Care must be taken that the structure underneath the Advantage Spa will not warp or suffer damage in the event of a water spill. If located in a multiple floor structure, objects on the floor below should be protected in the event of a major spill.

Place only on floors that can withstand the floor loading capacity of your tub. If you do not know the rating of your floor, consult an architect or engineer before filling. See specifications.

NEVER use sharp utensils in and around the Advantage Spa. Sharp objects can cause punctures in the vinyl.

Handle the Power Pak gently. The Power Pak has components inside which may incur damage if dropped.

Pets should be kept away from the Advantage Spa. Cats have been known to sharpen their claws on the vinyl and dogs have chewed on the power cord.

Site Preparation

Before selecting a site please read the safety information, the warnings and the relevant (indoor or outdoor) installation sections.

Your Advantage Spa is self-contained and portable. You can locate it just about anywhere you wish – on a patio, deck, or even indoors.

- **Structure:** Regardless of your choice, the Advantage Spa should always be placed on a structurally strong (see specifications for loading capacity), relatively smooth and level surface.
- **Drainage:** When selecting an installation site, be sure to allow for drainage away from the Power Pak which houses the electrical components and filter.
- **Electrical:** The installation site should allow for easy access to the Ground Fault Circuit Interrupter (GFCI) which is located on the end of the power cord. The 110 volt GFCI and the outlet it is plugged into must be protected from weather, landscape sprinklers and accidental spills – they should never get wet. Allowing moisture to enter either the GFCI or the outlet may result in tripping of the main circuit breaker in the house electrical panel.

Your Advantage Spa has been carefully engineered to provide maximum safety against electrical shock. Installation must be within 20 feet of a three wire grounded outlet. Remember, connecting the Advantage Spa to an improperly wired circuit or using an extension cord, will negate many of its safety features.

Outdoor Installation

Check your local codes for restrictions (i.e. childproof gates.)

The Advantage Spa may be placed on any smooth, level surface that is strong enough to support your tub (see specifications for loading capacity). You may place it on tile, concrete, wood, brick or sand. Verify there are no sharp objects under the tub prior to placing it.

Verify that there is sufficient room to position the Power Pak, to plug it in and permit safe access to the tub. If you have any metal equipment, metal enclosures, metal water pipes, etc. within 5 feet of the Advantage Spa

Assemble Advantage Spa (see assembly instructions)

Install the connecting hoses with shut off valves to spa. Verify that there is an O-ring on the connecting hose unions. If the O-ring is not there, contact your dealer for a replacement. A missing or improperly installed O-ring may cause water leakage during operation.

NOTE do not install the power pack at this time

IMPORTANT! Verify that there is an O-ring on both sides of the connecting hose unions. If the O-ring is not there, contact your dealer for a replacement. A missing or improperly installed O-ring may cause water leakage during operation. Wipe the O-ring with a wet finger to clean it and make sure it is laying flat in its groove..

- After joining the hoses you are ready to fill the tub. Carefully smooth out any wrinkles. Next add fresh, clean water to a depth of about 1 inch. Again, carefully center and smooth out any wrinkles in the liner. Once the liner is in position, finish filling the tub with clean water (not over 104 f) until the water level is about 2 inches above the top of the uppermost hydro-therapy jet (the uppermost plumbing outlet inside the Advantage Spa. Check for leaks at the unions jets and suction fittings as the Advantage Spa is filling. If a leak is observed, stop filling, and tighten the fitting make sure the fittings are properly seated, gaskets are in place fitting is tight. Silicone has been applied to mating surfaces of jets and suction fittings during assembly. If the tub still leaks, check the O-ring on the connecting hoses (note no silicone is used on o-ring connections.)
- Only after the tub is filled with water and checked for leaks do you install the skirt and power pack.
- **Open the shut off valves** (pull up) open air valve on top of filter to prime pump
- Plug the Power Pak into an 110 volt outlet.
- Turn thermostat knob to max
- The pump will come on be sure all jets are operating. (open jets by twisting inside fins counter-clockwise
- Treat and test the water in accordance with the section on water treatment.
- The Advantage Spa is now ready for use.
- If the water is not warm enough.
- Put the thermal floating cover in place.
- Put the outer cover in place.
- Allow the Advantage Spa to run. The water will rise at a rate of about
- 1.5 degrees per hour.
- The thermostat control will turn the pump and heater off when the desired temp is reached.
- When the spa is up to temp the pump and heater will be off use the run timer to make the pump operate.
- Note when the run cycle is over the pump will not turn off if heat is required.
- Just put covers on and walk away the spa will go to automatic mode without Any help.

Water which splashes on the floor during use of the tub may cause a walking hazard and/or structural damage to the dwelling unless good drainage is provided. The use of a catch basin capable of holding the tub's capacity of water is recommended as a safeguard in the event of a major spill. Proper building material must be used in the area surrounding and beneath the tub. Take into

consideration the room humidity which will exist due to high tub temperatures. Providing natural or forced ventilation into the room will help maintain comfort and minimize moisture damage to the building. Consult an architect for aid in designing your indoor Advantage Spa room.

Follow the same directions shown for outdoor locations, but pay special attention to:

- **Floor Loading:** Some floors are not structurally rated to take the load of a waterbed or Advantage Spa. The floor must be able to withstand the capacity of your tub (see specifications). If you do not know the load rating of your flooring, ask an architect or engineer to verify it before you fill the tub with water. If needed, a deck can be constructed to spread the load as well as to incorporate a spill catchment.
- **Water Spills:** During filling, emptying or use, some water spillage will occur. The Advantage Spa should be placed only on or near floors which can get wet without damage (i.e. tile, linoleum etc.) and have appropriate drainage.

It is the responsibility of the tub owner to make sure the above installation conditions are met as well as to follow the safety and warning instructions. Advantage Spa is not responsible for any damage which may result from water spillage, excessive humidity, or structural loading. Please take all precautions necessary to insure years of joyful use of your Advantage Spa.

Your Advantage Spa comes with a powerful 1 HP pump, Electric Heater and also takes advantage of the heat generated by the pump inside the equipment enclosure. This makes for a very energy efficient spa. Each jet is adjustable from within the spa for user convince and comfort. Temperature and jet actuation are adjusted by means of the control knobs mounted on the Power Pak. When you finish using the spa replace the thermal floating cover and dust cover to reduce heat loss, chlorine loss, noise and evaporation.

OPERATION

Your Advantage Spa has been designed to simplify operation and maintenance. These guidelines should be followed for maximum safety, enjoyment and care of your Advantage Spa.

Temperature Setting: The temperature control knob has settings from off to max. By experimenting with different settings you will find the one most comfortable for you. We recommend that initially you set the knob setting on max after you have filled the tub and plugged in the Power Pak. The water temperature will rise at about 1.5 degree per hour until it shuts off. You should then fine tune the knob, down, until your preferred temperature is reached. The tub is heating whenever the jets are operating. When the set point is reached the jets will automatically turn off. We do not recommend operating the tub over 104 f.

Run Timer Jets On/Off: During use, if you want the jets on turn the run timer knob clockwise. When you finish using the tub, just walk away. The spa will continue to operate until the set temperature is reached. It then will automatically shut off.

Water Level: Always keep the water level at least 2 inch above the top jet. This will ensure that the jets do not force water over the thermal floating.

Air Control Valve: This valve is located on the control panel. The valve controls the amount of air that will be going through the jets. Turn the knob clockwise to open the air, counter clockwise to turn off the air. When the air valve is open the air going to the jets will be warmer since the air is coming from the enclosed power pack. Always replace the covers when leaving the spa.

MAINTENANCE

Vinyl Care Instructions:

The Inner Liner and Skirt Material: Properly used and maintained will assure long life to your Advantage Spa. However, the primary cause of failure is the improper care of water. A regular program of water treatment is essential. Consult your Advantage Spa dealer for the best water treatment system for you.

Recommended Water Balance

pH: 7.6

Total alkalinity: 80-130 PPM

- Calcium hardness: 50-150 PPM
- Chlorine residual: 2-3 PPM
- Bromine levels: 3-5 PPM
- Total dissolved solids below 1,500 PPM

Purchase a test kit from your dealer and test your water chemistry after each use of your Advantage Spa, but no less than once per week. The most common water chemistry imbalance need is to raise the pH. Avoid a low pH, as this will cause unsightly wrinkles to form in the liner.

Chemical Additions

- Always have the water circulating when adding chemicals. Add only one chemical at a time.
- Completely pre-dissolve any granulated chemicals in a water filled bucket so no granules rest on the vinyl surface.
- Always pre-dissolve or pre-dilute the chemicals you add.
- With a 2-5 gallon bucket, dip a few gallons of water out of the tub. Add the chemicals to the bucket and stir until they are fully dissolved or diluted. With the Advantage Spa jets turned on, slowly add the bucket of water back into the tub in the stream of one of the jets to ensure mixing. If you don't premix your chemicals, you may damage your vinyl surfaces and void your warranty.
- Do not use floating dispensers, as they can bleach the liner by over-concentration.
- Do not use gas chlorination, ionizers, scents, salts or soaps without consulting with your dealer.

Cleanliness

- Empty the Advantage Spa and fill with clean water every 3 months or when it
- becomes cloudy and proper water chemistry does not clear it up.

- While empty, use a mild soap solution to wipe away any soil or stains on the inner liner. Rinse thoroughly before refilling the tub. Remove and clean your filter once a month or more often if necessary.

Repair Liner

- If your liner does get a tear or puncture, your dealer can provide you with patching material. A secure, unnoticeable repair can usually be made.

Cleaning

- Use a mild soap and water solution to wash the vinyl, then rinse with clean water. Avoid abrasive soaps or tools or any other solvents.

Repair Skirt

- The vinyl can be repaired using standard vinyl repair techniques. Pieces of material can be obtained through your dealer.

Cleaning the filter:

- We recommend that you clean your filter once a month or more often depending on use. The filter may be unscrewed from the tub by hand and hosed off in your yard or your sink. Remove the outer sock and spray water between the pleats of the filter until clean. For a more thorough cleaning soak the filter in a dilute bleach solution and rinse thoroughly. Replace the sock on the filter and screw the filter back into the tub. Your dealer can advise you on when to replace the filter and where to obtain it.

Changing the water:

- We recommend you empty and clean your Advantage Spa and refill it with clean water when the dissolved solids become too high or about every 2-3 months depending on use. Always unplug the Power Pak before draining the tub. The tub is easily drained by using a hose to siphon out the water or by using a submersible pump. If you pump water out of the Advantage Spa, do not allow the suction end of the hose to contact the vinyl; this may damage the vinyl and void your warranty. Do not lift the tub if it contains more than 1/4 inch of water.

Winterizing/Vacationing:

- If you are taking a vacation or leaving your Advantage Spa unused for a week or so you should leave the thermal top on, air control valves off and set the control dial on your Power Pak on low (1-2). This will protect the Advantage Spa from freezing and will continue to filter the tub water to maintain cleanliness. Upon return, check the water chemistry to maintain correct chlorine and pH levels.
- If you are leaving your tub unattended for an extended period of time or do not plan on using it during the winter months it is recommended to drain your system completely. Drain your tub and disconnect the Power Pak from the tub. Lift the Power Pak and turn it so that the union ports are facing down and allow all the water to drain from the internal plumbing. Reconnect the Power Pak to the tub and replace the thermal top. Additional handling care must be taken since plastic becomes more brittle and more susceptible to breakage at lower temperatures.

Water Treatment:

- Water treatment is an important factor in the enjoyment of your Advantage Spa. Proper water maintenance is essential for the health of your friends and family as well as permitting years of trouble free use of your Advantage Spa.
- The most common water chemistry problems causing damage to the Advantage Spa are: improper pH maintenance, not premixing chemicals before adding to the water, use of improper chemicals and over chlorination. Too low of a pH level will result in excessive wrinkles and damage to the vinyl liner as well as corrosion in the Power Pak. Premixing the chemicals eliminates the problem of vinyl discoloration caused by contact with high chemical concentrations. Use of slow dissolving tablets and floating dispensers must not be used because of the potential of localized high chemical concentrations.
- Sodium dichlor is the recommended type of sanitizer. Sodium dichlor dissolves easily and its pH is nearly neutral, which minimizes the effect that the addition of a sanitizer has on the pH balance. Trichlor compounds are not recommended because they have a very low pH (2.6), are very potent and difficult to dissolve. Granules of this chemical may enter the Advantage Spa and cause damage to the vinyl. High chlorine or bromine levels can damage the vinyl and pose health risks. To reduce chlorine or bromine levels run the Advantage Spa with the air control valves open and the thermal top off.
- It is the responsibility of the owner to properly maintain the chemical balance and sanitation of the water. Advantage Spa is not responsible for any damages which result from improperly maintained water. In addition, improper water maintenance may result in voiding the warranty.

If you have any questions regarding chemicals, please contact your dealer or chemical manufacturer.

Recommended Levels

- pH: 7.4-7.6 (Ideal 7.6)
- Total Alkalinity:
- For Hypochlorites: 80-100ppm
- For Dichlor and Bromine Compounds: 100-120ppm
- Calcium Hardness: 50-150ppm
- Free Available Chlorine: 2-3ppm
- Bromine Reserve: 3-5ppm
- Total Dissolved Solids: Below 1,500ppm

TROUBLE SHOOTING

Problem:

Cannot turn on the jets.

- Check power (is the outlet hot)
- Check GFCI
- Turn run timer clockwise
- Check inside power pack is the pump plugged in ?

- Make sure that the unit is plugged into an energized 110 volt outlet.
- Check for power at the outlet (use a 110 volt appliance such as a light or hair dryer).
- If GFCI is not functioning and there is good power to the outlet – return Power Pak to dealer.

Problem:

Weak jets

- Could be air or solid obstruction in the plumbing.
- Make sure water height is about 2 inches above the top of the uppermost jet.
- Verify that no plugs or other coverings are over suction inlets in the tub (lower fittings).
- Loosen air relief on filter slightly to allow trapped air to escape, then retighten and try.

Problem:

If these are clean and the spa still has weak jets:

- Unplug Power Pak
- Drain tub
- Disconnect unions
- Separate Power Pak from tub
- Inspect the plumbing exposed by opening the unions for blocking material such as hair, leaves, string, plastic bags, etc.
- Clean and flush the Power Pak with high flow from a hose placed in top port of the Power Pak.
- Reassemble and try again.
- If no blocking objects were found – they are probably lodged inside the pump.
- Return Power Pak to dealer.

Problem:

Can't shut off the air with the jet

- Turn off air control knob
- Still won't shut off check connection inside pack
- Tub will not heat up to desired operating temperature

Problem:

- The Advantage Spa is not designed to heat much above 104 f. If the jets come on, the tub is heating.
- To heat faster, turn off air control valves completely (no air bubbles in jets).
- The thermal cover is not in place (in cold weather additional ground covers and floating covers may be needed).

Problem:

Tub/Power Pak leaks water

- A leak will typically be observed near where the Power Pak attaches to the tub.

- Dry the area.
- Check O-ring unions for full hand tightness.
- Check filter inside power pack.
- Check heater unions inside power pack.
- Check Plumbing harness Jets & Suctions
- Check Liner

SPECIFICATIONS

Model: # 1

- Weight 1800 Lbs
- Seating: 4 Adults
- Water: 220 Gallons
- Outside Diameter: 65 inches
- Inside Diameter: 55inches
- Overall Height: 27inches
- Water Depth: 20 inches
- Number of Jets: 3
- Power Pak Outside Diameter: 16 inches
- Height: 26 inches
- Weights With 18" water: 1,800 lbs.
- Dead Weight Floor Loading: 125 lbs./ft.2*

Electrical

- 120 volts, 60 Hz, 12 amps